We claim:

1. An absorber pipe, especially for a parabolic collector in a solar heat collecting apparatus, said absorber pipe comprising a central metal pipe (3), a glass sleeve tube (2) surrounding said central metal pipe (3) so that an annular space (4) is formed between the central metal pipe and the glass tubular sleeve, a glass-metal transitional element (5) arranged on a free end of the glass tubular sleeve and at least one expansion compensating device (10) connecting the central metal pipe (3) and the glass-metal transitional element (5) with each other so as to be slidable relative to each other in a longitudinal direction;

wherein said at least one expansion compensating device (10) is arranged at least partially in said annular space (4) between said central metal pipe (3) and said glass-metal transitional element (5).

- 2. The absorber pipe as defined in claim 1, wherein said at least one expansion compensating device (10) comprises a folding bellows (11).
- 3. The absorber pipe as defined in claim 2, wherein an interior end (12) of the folding bellows (11) is connected with the metal pipe (3) with a connecting element (15) and an outer end (13) of the folding bellows (11) is connected with the glass sleeve tube (2) by the glass-metal transitional element (5).

- 4. The absorber pipe as defined in claim 3, wherein the connecting element (15) extends from said interior end (12) of the folding bellows (11) through a first circular space (5) formed between the folding bellows (11) and the metal pipe (3).
- 5. The absorber pipe as defined in claim 3, wherein the connecting element (15) extends into the vicinity of the outer end (13) of the folding bellow (11).
- 6. The absorber pipe as defined in claim 4, wherein the connecting element (15) has a circular disk (16) attached to the folding bellows (11) and said circular disk (16) goes or changes over into a conical or cylindrical pipe-shaped section (17,18') extending through the first circular space (5).
- 7. The absorber pipe as defined in claim 3, wherein the connecting element (15) is provided at least partially with a mirrored surface on a side facing said central metal pipe (3).
- 8. The absorber pipe as defined in claim 2, wherein an interior end (12) of the folding bellows (11) is connected with the sleeve tube (2) by a connecting element (15') and by a glass-metal transitional element (5) and an outer end (13) of the folding bellows (11) is connected with the metal pipe (3).
- 9. The absorber pipe as defined in claim 8, wherein the connecting element (15') extends from said interior end (12) of the folding bellows (11) through a second

circular space (9) formed between the folding bellows (11) and the sleeve tube (2).

- 10. The absorber pipe as defined in claim 9, wherein said connecting element (15') extends beyond said outer end (13) of the folding bellows (11).
- 11. The absorber pipe as defined in claim 9, wherein said connecting element (15') has a circular disk (16) attached to said folding bellows (11) and said circular disk (16) goes over into a pipe-shaped cylindrical section (18) extending through said second circular space (9).
- 12. The absorber pipe as defined in claim 8, wherein said glass-metal transitional element (5) is attached to an outer collar (19) formed on said connecting element (15).
- 13. The absorber pipe as defined in claim 8, wherein the folding bellows (11) is provided with a mirror surface at least partially covering a side facing said metal pipe (3).
- 14. The absorber pipe as defined in claim 1, having two ends and said at least one expansion compensating device (10) is arranged at each of said two ends.

- 15. The absorber pipe as defined in claim 1, wherein said annular space (4) is evacuated.
- 16. The absorber pipe as defined in claim 1, wherein said annular space (4) is filled with a noble gas.
- 17. A parabolic collector for a solar heat collecting apparatus, said parabolic collector comprising a longitudinally extending linear parabolic reflector having a focal line and at least one absorber pipe arranged along said focal line;

wherein said at least one absorber pipe comprises a central metal pipe (3), a glass sleeve tube(2) surrounding said central metal pipe (3) so that an annular space (4) is formed between the central metal pipe and the glass tubular sleeve, a glass-metal transitional element (5) arranged on a free end of the glass tubular sleeve and at least one expansion compensating device (10) connecting the central metal pipe (3) and the glass-metal transitional element (5) with each other so as to be slidable relative to each other in a longitudinal direction;

wherein said at least one expansion compensating device (10) is arranged at least partially in the annular space (4) between said central metal pipe (3) and said glass-metal transitional element (5).

18. The parabolic collector as defined in claim 17, wherein said at least one expansion compensating device (10) comprises a folding bellows (11).

- 19. The parabolic collector as defined in claim 18, wherein an interior end (12) of the folding bellows (11) is connected with the metal pipe (3) with a connecting element (15) and an outer end (13) of the folding bellows (11) is connected with the glass sleeve tube (2) by the glass-metal transitional element (5).
- 20. The parabolic collector as defined in claim 19, wherein the connecting element (15) extends from said interior end (12) of the folding bellows (11) through a first circular space (5) between the folding bellows (11) and the metal pipe (3).
- 21. The parabolic collector as defined in claim 19, wherein the connecting element (15) extends into the vicinity of the outer end (13) of the folding bellows (11).
- 22. The parabolic collector as defined in claim 20, wherein the connecting element (15) has a circular disk (16) attached to the folding bellows (11), which goes over into a conical or cylindrical pipe-shaped section (17, 18') extending through the first circular space (5).
- 23. The parabolic collector as defined in claim 19, wherein the connecting element (15) is provided at least partially with a mirror surface on a side facing said central metal pipe (3).

- 24. The parabolic collector as defined in claim 18, wherein an interior end (12) of the folding bellows (11) is connected with the sleeve tube (2) by a connecting element (15') and a glass-metal transitional element (5) and an outer end (13) of the folding bellows (11) is connected with the metal pipe (3).
- 25. The parabolic collector as defined in claim 24, wherein the connecting element (15') extends from said interior end (12) of the folding bellows (11) through a second circular space (9) formed between the folding bellows (11) and the glass sleeve tube (2).
- 26. The parabolic collector as defined in claim 25, wherein said connecting element (15') extends beyond said outer end (13) of the folding bellows (11).
- 27. The parabolic collector as defined in claim 25, wherein said connecting element (15') has a circular disk (16) attached to said folding bellows (11) and said circular disk (16) goes over into a pipe-shaped cylindrical section (18) extending through said second circular space (9).